

Preface to a special volume of acarological papers in memory of Ekaterina Alekseevna Sidorchuk (1981–2019)

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The acarological and palaeontological communities lost a rising star when Dr Ekaterina Alekseevna (Katya) Sidorchuk passed away in a tragic accident while diving in the Maldives on 20 January 2019. Katya was a good colleague of many acarologists and much-loved friend of numerous collaborators. She was a highly-valued member of the editing team of *Zootaxa*, serving as a subject editor for Oribatida (Acari) for several years; her excellent editorial contributions were greatly appreciated by many colleagues and friends. To honour Katya, her colleagues and friends of the acarological world dedicate here a special volume of *Zootaxa* in her memory.

This memorial volume collects 28 papers on a variety of topics and taxa (both fossil and extant), including 11 papers on Prostigmata (Fan *et al.* 2019; Ghasemi-Moghadam *et al.* 2019; Hajiqaanbar *et al.* 2019; Khaustov *et al.* 2019; Khaustov & Frolov 2019; Lindquist & Sidorchuk 2019; Porta *et al.* 2019; Seeman 2019; Sidorchuk *et al.* 2019; Xu *et al.* 2019; Zmudzinski *et al.* 2019); 1 paper on Astigmata (Klimov *et al.* 2019) and 13 papers on other Oribatida (Bayartogtokh & Shimano 2019; Behan-Pelletier & Ermilov 2019; Colloff 2019; Hagino & Shimano 2019; Liang *et al.* 2019; Liu & Zhang 2019; Niedbala *et al.* 2019; Norton & Ermilov 2019; Páez *et al.* 2019; Ren *et al.* 2019; Resch *et al.* 2019; Shimano & Aoki 2019; Zheng *et al.* 2019); 3 papers on Mesostigmata (Joharchi & Trach 2019; Makarova 2019; Mašán & Babaeian 2019). These papers also include 1 new genus and 19 new species named after Katya.

The life of Katya and her important contributions to acarology and palaeontology were already described in two biographic papers: one published in *Acarologia* (Lindquist & Norton 2019) and another in *Palaeoentomology* (Rasnitsyn 2019). The latter also includes a list of 61 papers published by Katya and co-authors. This volume adds two more of her papers: one on a new species of *Eatoniana* (Erythraeidae) in the Eocene Baltic amber (Sidorchuk *et al.* 2019) and another on a new species of *Podapolipus* (Podapolipidae) parasitic on a gryllacridid cricket in Australia (Lindquist & Sidorchuk 2019). To supplement the excellent biographic data of Katya provided by Rasnitsyn (2019) and Lindquist & Norton (2019), I herein provide a list of patronyms in her honour as well as a list of new taxa named by her and co-authors.

Patronyms in honour of Ekaterina Alekseevna (Katya) Sidorchuk

Two genera (1 fossil and 1 extant) and 23 species (3 fossil and 20 extant) were named after Ekaterina Alekseevna (Katya) Sidorchuk. Except one genus and three species of insects, all others are mites. Among the 25 patronyms, 76% (19) are named in papers of this memorial volume. Of the 23 species-group patronyms, most (13) are after her family name (*sidorchukae* or *sidortschukae*), 7 are after her given name (*ekaterinae*) and 3 after her nick name (*katyae*). Makarova (2019) transliterated Katya's family name as Sidortschuk because she thinks this is the correct one from Russian.

Genus-group names

† *Katyacantharis* Kazantsev & Perkovsky, 2019 (INSECTA: Coleoptera: Cantharidae).

Sidorchukdispus Khaustov, Hugo-Coetzee, Ermilov & Theron, 2019 (ARACHNIDA: Trombidiformes: Prostigmata: Microdispidae).

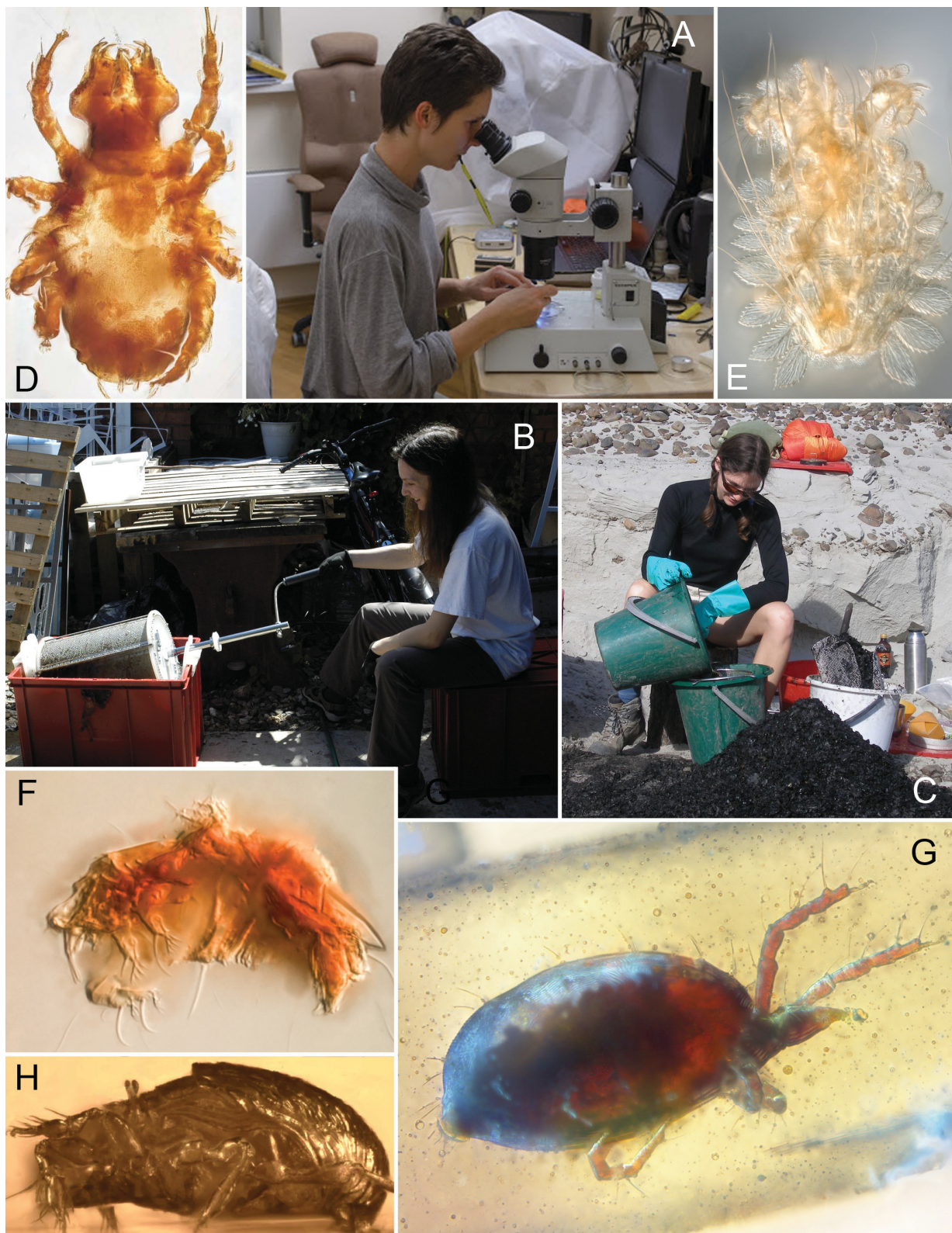


FIGURE 1. Ekaterina Alekseevna Sidorchuk, collecting and studying mites from fossil resins, with examples of her mite images. A—working at her home microscopy station (September 2017). B—testing a washing sifter for preliminary cleaning of resin-bearing substrate (June 2012). C—extracting pieces of fossil resins from washed substrate by flotation, while on collecting trip with husband Dmitry Vorontsov in Taimyr, Siberia (August 2012). D—*Cheletomimus crinitus* Bočov & Sidorchuk, 2016 (Cheyletidae). E—*Tuckerella weiterschani* Sidorchuk & Khaustov, 2018 (Tuckerellidae); modified from Sidorchuk and Khaustov (2018). F—*Minyacarus aderces* Sidorchuk & Lindquist, 2015 (Triasacaridae). G—*Pimeliaphilus* sp. (Pterygosomatidae). H—*Strieremaeus illibatus* Sellnick, 1918 (Archaeorhynchidae; tritonymph).

Species-group names

- Adamystis ekaterinae* Ghasemi-Moghadam & Saboori in Ghasemi-Moghadam *et al.*, 2019 (ARACHNIDA: Trombidiformes: Prostigmata: Adamystidae).
- Anderemaeus sidorchukae* Norton & Ermilov, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Anderemaeidae).
- Calyptostoma katyae* Konikiewicz, Wohltmann & Mąkol, 2016 (ARACHNIDA: Trombidiformes: Prostigmata: Calyptostomatidae).
- Cosmolaelaps ekaterinae* Mašán & Babaeian, 2019 (ARACHNIDA: Parasitiformes: Mesostigmata: Laelapidae).
- Cosmolaelaps sidorchukae* Joharchi & Trach, 2019 (ARACHNIDA: Parasitiformes: Mesostigmata: Laelapidae).
- † *Cretomycophila ekaterinae* Fedotova & Perkovsky, 2016 (INSECTA: Diptera: Cecidomyiidae).
- Dentachipteria sidorchukae* Ren, Yang, Liang & Zheng, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Achipteridae).
- Galumna* (*Cosmogalumna*) *ekaterinae* Ermilov & Friedrich, 2016 (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- Galumnella* (*Galumnella*) *sidorchukae* Liang, Yang, Ren & Zheng, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnellidae).
- Hoplophthiracarus sidorchukae* Liu & Zhang, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Phthiracaridae).
- Naiadacarus sidorchukae* Klimov, OConnor & Khaustov, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Acariidae).
- Neoaulonastus sidorchukae* Zmudzinski, Skoracki & Hromada, 2019 (ARACHNIDA: Trombidiformes: Prostigmata: Syringophilidae).
- Notophthiracarus sidorchukae* Niedbala in Niedbala, Hugo-Coetzee & Ermilov, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Phthiracaridae).
- Pergalumna ekaterinae* Páez, Villagomez & Palacios-Vargas, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- Pergalumna* (*Pergalumna*) *sidorchukae* Zheng, Liang & Yang, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- Sidorchukdispus ekaterinae* Khaustov, Hugo-Coetzee, Ermilov & Theron, 2019 (ARACHNIDA: Trombidiformes: Prostigmata: Microdispidae).
- Thalassogamasus sidorchukae* Makarova, 2019 (ARACHNIDA: Parasitiformes: Mesostigmata: Parasitidae).
- Trichogalumna ekaterinae* Bayartogtokh & Shimano, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- Trichoribates sidorchukae* Behan-Pelletier & Ermilov, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Ceratozetidae).
- Topalia katyae* Colloff, 2019 (ARACHNIDA: Sarcoptiformes: Oribatida: Nosybeidae).
- Plonaphacarus sidorchukae* Niedbala in Niedbala & Ermilov, 2011 (ARACHNIDA: Sarcoptiformes: Oribatida: Phthiracaridae).
- † *Vietocycla katyae* Fu & Huang, 2019 (INSECTA: Hemiptera: Hylcellidae).
- † *Supraserphites sidorchukae* Rasnitsyn & Öhm-Kühnle 2019 (INSECTA: Hymenoptera: Serphitidae).

New taxa named by Ekaterina Alekseevna (Katya) Sidorchuk and co-authors

Katya and co-authors established four family-group names (all fossil), eight genus-group names (all fossil) and 38 species-group names (12 fossil); all of these are for mites.

A new genus († *Palaeonothrus* Krivolutski & Sidorchuk, 2003) was proposed for † *Palaeonothrus polytrichus* Krivolutski & Sidorchuk, 2003 and † *Palaeonothrus rotundatus* Krivolutski & Sidorchuk, 2003 (Sarcoptiformes: Oribatida: Ameronothridae), but these were later considered by Sidorchuk & Rasnitsyn (2009) to be mis-identified parts of Ichneumonoidea (Insecta: Hymenoptera). These are thus not included in the following lists.

Family-group names

- † Carbolohmanniidae Sidorchuk & Robin in Robin *et al.*, 2016 (ARACHNIDA: Sarcoptiformes: Oribatida: Mixonomata).
- † Nasutiacaridae Sidorchuk & Lindquist in Sidorchuk *et al.*, 2015 (ARACHNIDA: Trombidiformes: Prostigmata: Heterostigmata).
- † Glaesaridae Klimov & Sidorchuk in Sidorchuk & Klimov, 2011 (ARACHNIDA: Sarcoptiformes: Oribatida: Astigmata).

† Triasacaridae Lindquist & Sidorchuk in Sidorchuk *et al.* 2014 (ARACHNIDA: Trombidiformes: Prostigmata: Tetrápodili).

Genus-group names

- † *Alexebates* Krivolutski & Sidorchuk, 2003 (ARACHNIDA: Sarcopiformes: Oribatida: Scheloribatidae).
† *Carbolohmannia* Sidorchuk & Robin in Robin *et al.*, 2016 (ARACHNIDA: Sarcopiformes: Oribatida: Mixonomata).
† *Cheirolepidoptus* Sidorchuk & Lindquist in Sidorchuk *et al.*, 2014 (ARACHNIDA: Trombidiformes: Prostigmata: Tetrápodili).
† *Glaesacarus* Klimov & Sidorchuk in Sidorchuk & Klimov, 2011 (ARACHNIDA: Sarcopiformes: Oribatida: Astigmata: Glaesacaridae).
† *Labidostoma* (*Pseudocornutella*) Sidorchuk & Bertrand, 2013 (ARACHNIDA: Trombidiformes: Prostigmata: Labidostatidae).
† *Minyacarus* Lindquist & Sidorchuk in Sidorchuk *et al.*, 2014 (ARACHNIDA: Trombidiformes: Prostigmata: Tetrápodili).
† *Nasutiacarus* Sidorchuk & Lindquist in Sidorchuk *et al.*, 2015 (ARACHNIDA: Trombidiformes: Prostigmata: Heterostigmata).
† *Protohylomysobia* Sidorchuk & Bochkov in Sidorchuk *et al.*, 2018 (ARACHNIDA: Trombidiformes: Prostigmata: Myobiidae).

Species-group names

- Africoribates subiasi* Ermilov, Sidorchuk & Rybalov, 2011b (ARACHNIDA: Sarcopiformes: Oribatida: Humeroibatidae).
Africoribates amorphus Ermilov, Sidorchuk & Rybalov, 2011b (ARACHNIDA: Sarcopiformes: Oribatida: Humeroibatidae).
† *Alexebates vychegodus* Krivolutski & Sidorchuk, 2003 (ARACHNIDA: Sarcopiformes: Scheloribatidae).
Arcoppia arborea Ermilov, Sidorchuk & Rybalov, 2010c (ARACHNIDA: Sarcopiformes: Oribatida: Oppiidae).
Austrocarabodes (*Austrocarabodes*) *heterosetosus* Ermilov, Sidorchuk & Rybalov, 2010g (ARACHNIDA: Sarcopiformes: Oribatida: Carabodidae).
Austrocarabodes (*Uluguroides*) *aethiopicus* Ermilov, Sidorchuk & Rybalov, 2010e (ARACHNIDA: Sarcopiformes: Oribatida: Carabodidae).
Austrocarabodes (*Uluguroides*) *arboreus* Ermilov, Sidorchuk & Rybalov, 2010e (ARACHNIDA: Sarcopiformes: Oribatida: Carabodidae).
Basilobelba gigantea Ermilov, Sidorchuk & Rybalov, 2011c (ARACHNIDA: Sarcopiformes: Oribatida: Basilobelbidae).
Carabodes (*Klapperiches*) *dilatatus* Ermilov, Sidorchuk & Rybalov, 2010g (ARACHNIDA: Sarcopiformes: Oribatida: Carabodidae).
† *Carbolohmannia maimaiphilus* Sidorchuk & Robin in Robin *et al.*, 2016 (ARACHNIDA: Sarcopiformes: Oribatida: Mixonomata).
Ceratozetes baleensis Ermilov, Sidorchuk & Rybalov, 2011b (ARACHNIDA: Sarcopiformes: Oribatida: Ceratozetidae).
† *Cheirolepidoptus dolomiticus* Sidorchuk & Lindquist in Sidorchuk *et al.*, 2014 (ARACHNIDA: Acariformes: Triasacaridae).
† *Cheletomimus* (*Hemicheyletia*) *crinitus* Bochkov & Sidorchuk, 2016 (ARACHNIDA: Trombidiformes: Prostigmata: Cheyletidae).
Collohmanna johnstoni Norton & Sidorchuk, 2014 (ARACHNIDA: Sarcopiformes: Oribatida: Collohmanniidae).
Dolicheremaeus aethiopicus Ermilov, Sidorchuk & Rybalov, 2010a (ARACHNIDA: Sarcopiformes: Oribatida: Tetracondylidae).
† *Eatoniana crinita* Sidorchuk, Konikiewicz, Welbourn & Mąkol, 2019 (ARACHNIDA: Trombidiformes: Prostigmata: Erythraeidae).
† *Eunicolina glaesi* Bertrand, Sidorchuk & Hoffeins, 2015 (ARACHNIDA: Trombidiformes: Prostigmata: Labidostatidae).
Galumna lanceosensilla Ermilov, Sidorchuk & Rybalov, 2011d (ARACHNIDA: Sarcopiformes: Oribatida: Galumnidae).
Galumnella baleensis Ermilov, Sidorchuk & Rybalov, 2010d (ARACHNIDA: Sarcopiformes: Oribatida: Galumnidae).
Galumnopsis giganteus Ermilov, Sidorchuk & Rybalov, 2011d (ARACHNIDA: Sarcopiformes: Oribatida: Galumnellidae).

- † *Labidostoma (Pseudocornutella) electri* Sidorchuk & Bertrand, 2013 (ARACHNIDA: Trombidiformes: Prostigmata: Labidostomatidae).
- Machadobelba shtanchaevae* Ermilov, Sidorchuk & Rybalov, 2010f (ARACHNIDA: Sarcoptiformes: Oribatida: Machadobelbidae).
- † *Megeremaeus cretaceous* Sidorchuk & Behan-Pelletier, 2017 (ARACHNIDA: Sarcoptiformes: Oribatida: Megeremaeidae).
- Microtegeus khaustovi* Ermilov, Sidorchuk & Rybalov, 2010f (ARACHNIDA: Sarcoptiformes: Oribatida: Microtegeidae).
- † *Minyacarus* Lindquist & Sidorchuk in Sidorchuk *et al.*, 2014 (ARACHNIDA: Trombidiformes: Prostigmata: Tetrapodili).
- † *Nasutiacarus perplexus* Sidorchuk & Lindquist in Sidorchuk *et al.*, 2015 (ARACHNIDA: Trombidiformes: Prostigmata: Heterostigmata).
- Ocesobates schatzi* Ermilov, Sidorchuk & Rybalov, 2011b (ARACHNIDA: Sarcoptiformes: Oribatida: Chamobatidae).
- Pergalumna makarovae* Ermilov, Sidorchuk & Rybalov, 2010b (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- Pilizetes anufrievi* Ermilov, Sidorchuk & Rybalov, 2010d (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- Plasmobates foveolatus* Ermilov, Sidorchuk & Rybalov, 2010c (ARACHNIDA: Sarcoptiformes: Oribatida: Plasmobatidae).
- Podapolipus gryllacridi* Lindquist & Sidorchuk, 2019 (ARACHNIDA: Trombidiformes: Prostigmata: Podapolipodidae).
- † *Protohylomysobia erinaceophilus* Sidorchuk & Bochkov in Sidorchuk *et al.*, 2018 (ARACHNIDA: Trombidiformes: Prostigmata: Myobiidae).
- † *Sellnickiella balticae* Sidorchuk & Bertrand, 2013 (ARACHNIDA: Trombidiformes: Prostigmata: Labidostomatidae).
- Separatoppia horvathae* Ermilov, Sidorchuk & Rybalov, 2011a (ARACHNIDA: Sarcoptiformes: Oribatida: Oppiidae).
- Taeniogalumna behanae* Ermilov, Sidorchuk & Rybalov, 2010d (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- Trichogalumna africana* Ermilov, Sidorchuk & Rybalov, 2011d (ARACHNIDA: Sarcoptiformes: Oribatida: Galumnidae).
- † *Tuckerella weiterschani* Sidorchuk & Khaustov, 2018 (ARACHNIDA: Trombidiformes: Prostigmata: Tuckerellidae).
- Zetorchella nortoni* Ermilov, Sidorchuk & Rybalov, 2010h (ARACHNIDA: Sarcoptiformes: Oribatida: Caloppiidae).

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